Slanetz And Bartley Medium

Catalog : HB8488-2-5K

Slanetz And Bartley Medium is used for detection of enterococcus in down feather products.

Approximate Formula:

Ingredients	gm/liter
Tryptone	20.0
Yeast extract	5.0
Glucose	2.0
Dipotassium phosphate	4.0
Sodium azide	0.4
TTC	0.1
Agar	10.0

Final pH7.2±0.2 at 25℃

*Adjusted and/or supplemented as required to meet performance criteria.

Directions:

Suspend 42.0g of the medium in one liter of deionized or distilled water. Heat to completely dissolved. Cool to 50-55℃,dispense into petri dishes.

Principle and Interpretation:

Tryptone provides carbon and nitrogen sources; Glucose provides energy; Sodium dihydrogen phosphate is buffering agent; Yeast extract provides B vitamins, amino acids; Agar is the solidifying agent of the medium; Sodium azide is a selective bacteriostatic agent can inhibit the growth of bacteria. TTC is pigment.

Appearance:

Dehydrated medium is a free-flowing yellowish powder. The prepared medium is a kind of yellowish transparent gel.

Precautions:

This medium is for laboratory use only. Dried medium which is past shelf life, caking or color variation cannot be used.

Storage conditions and Shelf life:

Slanetz And Bartley Medium must be stored tightly capped in the original container at 5-30°C. The dehydrated medium has a shelf life of 5 years from date of manufacturing. Prepared medium may be stored, out of direct light at 2-8°C.

Quality control:

Cultural characteristics observed after an aerobic incubation at 30-35℃for 48 hours.

Microorganism	Strains Number	Inoculum (CFU)	Recovery
Staphylococcus aureus	ATCC6538	100-1000	Inhibition
Escherichia coli	ATCC25922	100-1000	Inhibition
Enterococcus faecalis	ATCC29212	20-200	Good

References

1. Eaton, Rice and Baird (ed). 2005. Standard methods for the examination of water and wastewater,21st ed., online. American Public Health Association, Washington, D.C.

2. Slanetz, Bent and Bartley. 1955. Public Health Rep. 70:67.

3. Slanetz and Bartley. 1957. J. Bacteriol. 74:591.

4. Burkwell and Hartman. 1964. Appl. Microbiol. 12:18.

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